

Attorney's Docket No.: 12732-038001 / US4917/4945

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Hideomi Suzawa et al.

Art Unit : 2812

Serial No.: 09/852,672

Examiner: Alexander G. Ghyka

Filed

: May 11, 2001

Confirmation No.: 5083

Title

: SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF

## MAIL STOP RCE

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

Submitted herewith is an English translation of the following foreign language references, or portions thereof:

Desig. ID	Source
10	
ABBB	JAPAN 01-207973 – English Abstract: DIALOG® FILE 352:Derwent WPI (2001);
	Accession No. 008017742
ACCC	JAPAN 07-130652 - English Abstract: DIALOG® FILE 347:JAPIO (1998);
Accc	Accession No. 04838052
ADDD	JAPAN 09-054318 – Full English language translation
AEEE	JAPAN 10-048640 – English Abstract: 1998, 2003 JAPAN PATENT OFFICE©
AFFF	JAPAN 10-073813 - English Abstract: DIALOG® FILE 347:JAPIO (2002);
Arrr	Accession No. 05790713
AGGG	JAPAN 10-326772 - English Abstract: DIALOG® FILE 352:Derwent WPI (2001);
AGGG	Accession No. 012285689
АННН	JAPAN 11-258596 - English Abstract: DIALOG® FILE 352:Derwent WPI (2000);
Аппн	Accession No. 012788624
ATTI	JAPAN 2000-047263 - English Abstract: esp@cenet database - Worldwide (2005):
AIII	http://v3.espacenet.com/family?sf=n&FIRST=1&F=8&CY=ep&LG=en&PN=JP2000
A 111	JAPAN 2001-085700 - English Abstract: esp@cenet database - Worldwide (2005):
AJJJ	http://v3.espacenet.com/textdoc?DB=EPODOC&IDX=JP2001085700&F=8&QPN=

Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office

Attorney's Docket No. 12732-038001

Application No. 09/852,672

<u> Jun 1 3 2005</u>

## **Information Disclosure Statement** by Applicant (Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant Hideomi Suzawa et al.

Filing Date May 11, 2001 **Group Art Unit** 2812

<u> </u>		
₹	MA	DEA

U.S. Patent Documents								
Examiner Inijal	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate	
K	AA	2001/0019127 A1	09/06/2001	Ishida			04/09/2001	
	AB	2001/0025959 A1	10/04/2001	Yamazaki et al.			02/21/2001	
	AC	2001/0030322 A1	10/18/2001	Yamazaki et al.			02/02/2001	
	AD	2001/0040655 A1	11/15/2001	Yamazaki et al.			04/16/2001	
	AE	2001/0055841 A1	12/27/2001	Yamazaki et al.			04/12/2001	
	AF	2002/0013022 A1	01/31/2002	Yamazaki et al.			05/09/2001	
	AG	2002/0017685 A1	02/14/2002	Kasahara et al.			05/03/2001	
	AH	2002/0158288 A1	10/31/2002	Yamazaki et al.			02/21/2002	
	AI	2005/0040403 A1	02/24/2005	Suzawa et al.			10/08/2004	
	AJ	2005/0056934 A1	03/17/2005	Suzawa et al.			07/29/2004	
	AK	2005/0056848 A1	03/17/2005	Yamazaki et al.			10/07/2004	
	AL	4,233,109	11/11/1980	Nishizawa			07/12/1978	
	AM	4,885,074	12/05/1989	Susko et al.			04/26/1989	
	AN	5,470,768	11/28/1995	Yanai et al.			08/05/1993	
	AO	5,486,717	01/23/1996	Kokubo et al.			09/21/1994	
	AP	5,576,858	11/19/1996	Ukai et al.		·	09/27/1995	
	AQ	5,716,534	02/10/1998	Tsuchiya et al.			11/29/1995	
	AR	5,824,606	10/20/1998	Dible et al.			03/29/1996	
	AS	5,852,481	12/22/1998	Hwang			09/10/1997	
	AT	5,883,007	03/16/1999	Abraham et al.			12/20/1996	
	AU	6,013,930	01/11/2000	Yamazaki et al.			09/22/1998	
	AV	6,064,090	05/16/2000	Miyamoto et al.			06/27/1996	
	AW	6,114,736	09/05/2000	Balasubramanyam et al.			07/12/1999	
	AX	6,166,414	12/26/2000	Miyazaki et al.			08/25/1999	
	AY	6,208,395 B1	03/27/2001	Kanoh et al.			08/16/1996	
M	AZ	6,239,403 B1	05/29/2001	Dible et al.			02/03/2000	
AC.	AAA	6,259,106 B1	07/10/2001	Boegli et al.			01/06/1999	

					//	/
Examiner Signature		777		Date Considered	7. /	
- /	1 //		$M_{\Lambda}$		////	n/
	11 1/2/	1/2		'+/	16/1	1/2
EVANINED. Initial	7 V	1 To 1 To 1	744		[ 4 / _	Side and to abord a second of this form with
EXAMINER: INIGAS	Siation consid	ierea. שקש iir	iş tıprougn citati	on it not in conformance a	ina not con:	sidered. Include copy of this form with
next communication t	o applicant.		/	_\bullet		
						Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office

Attorney's Docket No. 12732-038001

**Applicant** 

Application No. 09/852,672

JUN 1 3 2005

Information Disclosure Statement **by Applicant** (Use several sheets if necessary)

(37 CFR §1.98(b))

Hideomi Suzawa et al. Filing Date

May 11, 2001

Group Art Unit 2812

U.S. Patent Documents								
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate	
AC.	ABB	6,357,385 B1	03/19/2002	Ohmi et al.			10/05/1998	
	ACC	6,362,027 B1	03/26/2002	Yamazaki et al.			07/06/1999	
	ADD	6,423,242 B1	07/23/2002	Kojima et al.			11/10/1999	
	AEE	6,429,086 B1	08/06/2002	Meikle et al.			11/25/1997	
	AFF	6,431,112 B1	08/13/2002	Sill et al.			05/04/2000	
	AGG	6,461,899 B1	10/08/2002	Kitakado et al.			04/26/2000	
	АНН	6,475,836 B1	11/05/2002	Suzawa et al.			03/28/2000	
	AII	6,489,222 B2	12/03/2002	Yoshimoto			05/30/2001	
	AJJ	6,515,336 B1	02/04/2003	Suzawa et al.			09/18/2000	
	AKK	6,524,877 B1	02/25/2003	Nakazawa et al.			10/25/2000	
	ALL	6,534,789 B2	03/18/2003	Ishida			04/09/2001	
	AMM	6,556,702 B1	04/29/2003	Rishton et al.			01/06/1999	
	ANN	6,608,353 B2	08/19/2003	Miyazaki et al.			07/12/2002	
	AOO	6,686,228 B2	02/03/2004	Suzawa et al.			07/03/2002	
	APP	6,686,606 B2	02/03/2004	Jeong et al.			03/18/2003	
	AQQ	6,703,997 B2	03/09/2004	Murade			06/26/2002	
	ARR	6,737,712 B2	05/18/2004	Hashimoto et al.			10/15/2002	
	ASS	6,747,289 B2	06/08/2004	Yamazaki et al.			04/24/2001	
	ATT	6,750,424 B2	06/15/2004	Tanaka			04/30/2001	
	AUU	6,753,257 B2	06/22/2004	Yamazaki			12/27/2002	
	AVV	6,773,996 B2	08/10/2004	Suzawa et al.			05/10/2001	
	AWW	6,791,630 B2	09/14/2004	Kim			05/02/2003	
$V_{\mu}$	AXX	6,809,339 B2	10/26/2004	Suzawa et al.			12/29/2003	
R	AYY	6,825,488 B2	11/30/2004	Yamazaki et al.		_	01/26/2001	

**Examiner Signaty** Date Considered EXAMINER: Initials diation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

Information Disclosure Statement by Applicant (Use several sheets if necessary)  Applicant Hideomi Suzawa et al.  Filing Date  Group Art Unit  Applicant  Filing Date  Group Art Unit	Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12732-038001	Application No. 09/852,672	OIPE
(Use several sheets if necessary)  Filing Date  Group Art Unit	by Ar	pplicant	Applicant		
	(Use several st (37 CFR §1.98(b))	neets if necessary)	•		PA ADEMAR

	Foreign Patent Documents or Published Foreign Patent Applications									
Examiner Inital	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation			
AC	AZZ	0 680 079 A2	11/02/1995	EUROPE			In English			
	AAAA	0 909 972 A2	04/21/1999	EUROPE			In English			
	ABBB	01-207973	08/21/1989	JAPAN			ABS			
	ACCC	07-130652	05/19/1995	JAPAN			ABS			
	ADDD	09-054318	02/25/1997	JAPAN			FULL			
	AEEE	10-048640	02/20/1998	JAPAN			ABS			
	AFFF	10-073813	03/17/1998	JAPAN			ABS			
	AGGG	10-326772	12/08/1998	JAPAN			ABS			
	АННН	11-258596	09/24/1999	JAPAN			ABS			
, a	AIII	2000-047263	02/18/2000	JAPAN			ABS			
R	AJJJ	2001-085700	03/30/2001	JAPAN			ABS			

	Other Documents (include Author, Title, Date, and Place of Publication)							
Examiner	Desig.							
Initial	ID	Document						
A C	AKKK	Badih El-Kareh; Fundamentals of Semiconductor Processing Technologies; p. 285; 1998						

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Drawline through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 12732-038001	Application No. 09/852,672	
	closure Statement pplicant	Applicant Hideomi Suzawa et al.		
(Use several sheets if necessary) (37 CFR §1.98(b))		Filing Date May 11, 2001	Group Art Unit 2812	

	U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate	
$\mathcal{H}$	AA	2005/0104068 A1	05/19/2005	Yamazaki			12/17/2004	
A	AB	2005/0110016 A1	05/26/2005	Yamazaki			12/17/2004	
AC	AC	6,130,119	10/10/2000	Jinnai			09/25/1998	
Ae	AD	6,534,826 B2	03/18/2003	Yamazaki			04/27/2000	
KC	AE	6,909,114 B1	06/21/2005	Yamazaki			11/04/1999	
	AF							
	AG							
	AH							
	ΑĬ							
	AJ							
	AK							

	Foreign Patent Documents or Published Foreign Patent Applications								
Examiner	Desig.	Document	Publication	Country or				lation	
Initial	Ö۵I	Number	Date	Patent Office	Class	Subclass	Yes	No	
	. AL								
	AM			X		2			
	AN								
	AO								
	AP								

(	Other Documents (include Author, Title, Date, and Place of Publication)							
Examiner Initial	Desig. ID	Document						
	AQ							
	AR							
	AS							
	AT							

$\sim 1 \sim 1$	
Examiner Signature ///	Date Considered
My Krola	7/6/06
EXAMINER: Initials citation considered Draw line through citation in next communication to applicant.	f not in conformatice and not considered. Include copy of this form with
	Substitute Disclosure Form (PTO-1449)

						OII	eet <u>1</u>	<u> </u>	
Substitute Form PTO-1449 (Modified)  U.S. Department of Commerce Patent and Trademark Office									
In		n Disclosure Si by Applicant		Applicant Hideomi Suzawa	a et al.	-			
(Use several sheets if necessary) (37 CFR §1.98(b))			Filing Date May 11, 2001						
			II S Pato	nt Documents					
Examiner	Desig.	U.S. Patent Documents    Document   Publication   Filing Date							
Initial	ID	Number	Date	Patentee	Class	Subclass	If Appropriate		
16	AA	5,698,882	12/16/1997	Park			12/27/1	994	
110	AB								
	AC								
	AD					/			
	ĄE								
	AF								
	AG			The state of the s					
	AH								
	AI								
	AJ								
	AK								
L	1	<u> </u>							
		<del>,</del>		ıblished Foreign	Patent A	Application	ns		
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Trans Yes	No No	
	AL					-			
	AM								
	AN								
	AO								
	AP	/							
	<u>.</u>		1						
	Other D	ocuments (ii	nclude Author	, Title, Date, and	Place	f Publicati	on)		
Examiner	Design			<u> </u>					
	Desig.						_		
Initial	ID AQ			Document					
	ID								
	AQ								
	AQ AR								
	AR AS								
Initial	AR AS AT		1	Document					
Initial  Examiner Sign	AR AS AT	Ah L	1		, h 6				

Substitute Disclosure Form (PTO-1449)